DOOSAN INFRACORE CO., LTD.

EXECUTIVE ORDER U-R-019-0091 New Off-Road Compression-Ignition Engines

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control system produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours) 8000			
2006	6DWXL05.8COA	5.8	Diesel				
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION				
 	Direct Diesel Injection, Tu Charge Air Coo	ırbocharger, ler	Loader, Compressor, Generator Set, Other OEM Products				

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kW-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED	EMISSION		EXHAUST (g/kW-hr)				OPACITY (%)			
POWER CLASS	STANDARD CATEGORY		HC	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
75 ≤ kW < 130	Tier 2	STD	N/A	N/A	6.6	5.0	0.30	20	15	50
		CERT			5.9	1.3	0.26	18	5	46

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this ____

_ day of September 2006.

Annette Hebert, Chief

Mobile Source Operations Division

Doosan Infracore Co., Ltd
Manufacturer:

6DWXL05.8COA EPA Engine Family.

DB58TIS Mfr Family Name: New Submission Process Code: 7.Fuel Rate: mm/stroke@peak torque 6.Torque @ RPM (SEA Gross) 5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only) mm/stroke @ peak HP (for diesel only) 4.Fuel Rate: 3.BHP@RPM (SAE Gross) 2. Engine Model

@ 1400

8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930

, 'Ida

TC, CAC

49

45 36 42

89 93 91 91 64

@ 1500

457

61 63 63 53 56 56 56 58 58 64

399 @ 1600

471 @ 1600

49

103 92 103

464 @ 1600

163 @ 2200

DB58TIS OLC

ു 99 @ 1850

DB58TIS OEG DB58TIS OEH DB58TIS OLA DB58TIS OLB

DB58TIS OEF

533 @ 1400

45 29 48

E0#4-6-016-006]

Attachment

@ 1400

457

922 85 86 77 70 88 88

153 @ 2000

DB58TIS OEC DB58TIS OED DB58TIS OEE

ध70 @ 2000 155 @ 1950

1. Engine Code

DB58TIS OEA

DB58TIS OEB

Nonroad CI

Engine category: